

Amendments

In accordance with 37 CFR §1.121, please amend the above-identified application as set forth below.

Amendments to the Drawings

Please cancel Figures 1-18 as submitted February 9, 2004. Please replace with the newly-submitted Figures 1-17.

Amendments to the Specification

On page 7, please delete the third paragraph, identified by line 3, as indicated below.

~~Figure 18 is an isometric view of the automatic head support.~~

On page 19, please delete the second paragraph, identified by lines 12-22, and replace the deleted paragraph with the replacement paragraph below.

Figure 17 is an isometric view of the automatic thigh support for a fold down seat of the present invention. The depicted embodiment incorporates two side thigh bolsters 560 that pivot around two side members of a seat bottom frame 505, and a front thigh bolster 570 that pivots around a front member of seat bottom frame 505. Like the lumbar support, bolsters 560 and 570 have a non supporting flat position and a supporting extended position. As described in the lumbar support embodiments, a seat back frame 510 and a ~~T~~torsion bar ~~514~~ (obscured in figure 17) are cooperatively mounted. Seat back frame 510 is hingedly connected to seat bottom frame 505 at connection 512. The ~~T~~torsion bar

~~514~~ is mounted to and engaged with the overall seat frame in a manner substantially equivalent to that depicted in figure 1. An automatic actuator ~~550~~ is operatively engaged with the torsion bar ~~514~~ in order to automatically actuate Bowden traction cable 530, also in the manner previously described.

On page 19, please delete the third paragraph, identified by line 23 of page 19 through line 11 of page 20, and replace the deleted paragraph with the replacement paragraph below.

In order to actuate Bowden traction cable 530 when the seat back is folded up, the traction cable 530 is attached to the bolsters 560 and 570 through seat back frame 510. A traction cable sleeve mount ~~540~~ (not shown) is seated in a portion of seat back frame 510, and at that portion the sleeve 532 has an end-~~536~~. A traction cable wire 534 is attached to its end bullet seat located in automatic actuator ~~550~~ engaged with torsion bar 514 such that the sleeve end and wire end are separated when the seat is folded up. A movement of seat back frame 510 from a stowed position applies traction to the traction cable such that the traction cable moves the bolsters 560 and 570. As described above for actuation of the lumbar support, alternatively, a sleeve end ~~536~~ may be engaged with seat bottom frame 505, and a wire end may be engaged with seat back frame 510. This alternative configuration also has the sleeve end and wire end separated when the seat is folded up, and a movement of seat back frame 510 from the stowed position applies traction to the traction cable such that the traction cable moves the bolsters 560 and 570.

On page 20, please delete the third paragraph, identified by line 23 of page 20 through line 7 of page 21, and replace the deleted paragraph with the replacement paragraph below.

Figure ~~18~~17 is an isometric view of the automatic head support for a fold down seat of the present invention. A preferred embodiment incorporates a head rest 660 that pivots around a horizontal member of a seat back frame ~~610~~510. As described in the lumbar support embodiments, seat back frame ~~610~~510 and ~~a~~ the torsion bar 614 are cooperatively mounted. Seat back frame ~~610~~510 is hingedly connected to a seat bottom frame ~~605~~505 at connection ~~612~~512. ~~The~~ Torsion bar 614 is mounted to and engaged with the overall seat frame in a manner substantially equivalent to that depicted in figure 1. A cable tension unit ~~650~~ (not shown) is operatively engaged with torsion bar 614 in order to automatically actuate Bowden traction cable 630, also in the manner previously described.

On page 20, please delete the second paragraph, identified by lines 12-21 on page 21, and replace the deleted paragraph with the replacement paragraph below.

The Bowden traction cable actuates head rest 660. Actuation of head rest 660 to move it into its supporting position is achieved by connecting the traction cable 630 to the cable tension unit in the same manner as described above for actuation of the lumbar support. The head rest is capable of adjusting its height upwards and downwards. A fixed portion of the head rest 662 is attached to seat back frame 610 and a moving portion of the head rest 664 ~~rotates forwards and backwards~~ moves upon actuation to support the head of a seat occupant, in accordance with known bolster movement apparatuses. The Bowden traction

cable 630 has a sleeve 632 and a wire 634, each being respectively engaged with the fixed portion 662 and moving portion 664 of the head rest 660 in order to move the moving portion 664 when traction is applied, again according to the techniques described above for actuation of the lumbar support. The moving portion 664 of the head rest 660 moves ~~forwards and towards~~ to support the back of the seat occupant's head upon actuation. In this manner, the head support is automatically actuated when seat back frame 610 is folded up into a position for seating.

On page 21, please delete the third paragraph, identified by line 22 of page 21 through line 2 of page 22, and replace the deleted paragraph with the replacement paragraph below.

The self presenting techniques of the present invention may be applied to self presenting arm rests as well. Arm rest 600 may be hingedly engaged with seat back frame 510 and actuated by a Bowden cable ~~402~~ in the manner previously described for actuation of Bowden cables applying self presenting traction to the other ergonomic supports herein described.